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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/559,850	12/07/2005	Dov Ingman	2387.0020000	1962
54089	7590 08/24/2007		EXAMINER	
BARDMESSER LAW GROUP, P.C. 910 17TH STREET, N.W.			LEUNG, QUYEN PHAN	
SUITE 800 WASHINGTO	N DC 20006	/	ART UNIT PAPER NUMBER 2874	
WHOIMINGTO	11, DC 20000			
	,		MAIL DATE	DELIVERY MODE
			08/24/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/559,850	INGMAN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Quyen P. Leung	2874	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence add	ress
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period were according to the reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tile will apply and will expire SIX (6) MONTHS from 1, cause the application to become ABANDONE	N. mely filed the mailing date of this con (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on 2a) ☐ This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		merits is
Disposition of Claims			
 4) ☐ Claim(s) 45-62 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 45-55 is/are allowed. 6) ☐ Claim(s) 56-62 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or 	vn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 10.	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFF	
Priority under 35 U.S.C. § 119		•	
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National S	Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal R	ate	
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:		

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 57-58, 62 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 57 recites the limitation "the first nano-particle material layer" in line 2.

There is insufficient antecedent basis for this limitation in the claim.

Claim 58 recites the limitation "the first nano-particle material layer" in line 2.

There is insufficient antecedent basis for this limitation in the claim.

Claim 62 recites the limitation "the first nano-particle material layer" in lines 1-2.

There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 56, 60 are rejected under 35 U.S.C. 102(b) as being anticipated by Cho et al (5,414,214). Cho discloses a substrate (220), a microfabricated device (225), and an intermediate layer (110), as claimed.

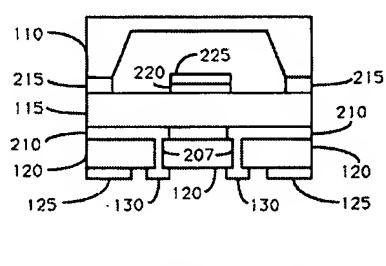


FIG. 2 205

Re claim 60, see col. 7 lines 55 through col. 8 line 3 for the substrate (220) being a ceramic material (ceramic mixture) or an optically transparent material (glass).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 61 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cho et al, as applied above. Cho et al has been discussed except for the intermediate layer comprising an optically transparent material. See col. 4 lines 34-42 for the materials of the intermediate layer (110) taught by Cho et al. Examiner takes Official Notice that these materials are well-known. Lacking any stated criticality, it would have been an

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obvious design choice to use an intermediate layer comprising an optically transparent material.

Allowable Subject Matter

Claims 45-55 are allowed.

Claims 57-59, 62 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: The cited prior art fail to teach or fairly suggest an integrated circuit and nano particle material adjacent thereto (claim 45) or a photonic device and a nano-particle material enclosed between a lid and an enclosure with an opening (claim 51).

Lester (5,777,433) and Mueller et al (6,870,311) teach light emitting devices whose packages utilize nanoparticles, but not integrated circuits or the enclosure as claimed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quyen P. Leung whose telephone number is (571) 272-8188. The examiner can normally be reached on normally M-F, 6:15 am - 2:45 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Quyen Leung/ Quyen Leung Primary Patent Examiner Group Art Unit 2874

qpl